

App #: 10-807187

## EAST SEARCH HISTORY

**Databases:** US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM\_TDB

Ref#	Hits	Search Text
S19	117	S18 and detect\$4
S18	121	S17 and image and pixel and edge
S22	20	S21 and microscope
S21	44	S19 and @pd<"20030325"
S35	13	("3829691"   "4698503"   "4733074"   "4894540"   "4941980"   "5130540"   "5142147"   "5512747"   "5523568"   "5608218"   "6067164"   "6172365"   "6278114").PN.
S33	2	2001-84944
S30	3	KOMATSU and BUNRO and KAGA and YASUHIRO
S32	4	("7109485").PN.
S31	2	("200184944").PN.
S29	0	05-190132
S28	1	5-190132
S34	6	("4618766"   "5512747"   "6353222"   "6538249"   "6653633"   "6838667").PN.
S27	35	S26 and microscope
S25	14	S24 and focal
S13	18	S11 and focal
S15	17	("3694088"   "3749493"   "4639139"   "4641972"   "4657394"   "4984893"   "4988886"   "5069548"   "5075562"   "5085502"   "5307151"   "5307152"   "5561526"   "5612786"   "5636025"   "5825495"   "5835218").PN.
S11	68	S8 and semiconductor
S24	15	("in focus" or "in-focus") and semiconductor and microscope and electron and image and pixel and edge and detect\$4 and @pd<"20030325"
S23	7	S22 and electron
S17	720	S16 and focal
S16	1144	("in focus" or "in-focus") and pattern and semiconductor
S14	13	S13 and pattern
S12	0	S10 and S11
S4	5	((20022044029) or ("2001084944") or ("5190132")).PN.
S9	0	S7 and S8
S7	270	("in focus" or "in-focus" or infocus) and (memory or storage) and pattern and image and pixel and edge and focal and select\$4
S10	7	S8 and ("in focus" or "in-focus")
S8	529	(382/286).CCLS.
S3	4	tadashi mitsui
S1	2602	mitsui and tadashi
S6	3	("2001294209").PN.
S2	89	S1 and kanagawa
S5	3	("2002244029").PN.
S26	129	("in focus" or "in-focus") and image and pixel and edge and detect\$4 and @pd<"20030325" and focal and pattern and (memory or storage or archive or reference)
S20	0	S19 and @pd<"200303"
S43	6	((1st or first) adj derivative) and (edge adj2 detect\$3) and image and pixel and ("in focus" or "in-focus")

S40	7	S39 and ("in focus" or "in-focus")
S44	13	(US-20020015143-\$).did. or (US-6653633-\$ or US-5030008-\$ or US-7109485-\$ or US-6538249-\$ or US-5648652-\$ or US-5245173-\$ or US-5557097-\$ or US-5912699-\$ or US-5644245-\$ or US-5051585-\$ or US-6456899-\$ or US-6288782-\$).did.
S45	3	S44 and intensity and gradient
S38	1	S37 and (edge adj2 detect\$3)
S36	4	(edge adj2 detect\$3) and semiconductor and image and pixel and ("in focus" or "in-focus") and focal and @pd<"20030325"
S41	8	intensity gradient and (edge adj2 detect\$3) and image and pixel and ("in focus" or "in-focus") and focal
S42	0	((1st or first) adj derivative) and (edge adj2 detect\$3) and image and pixel and ("in focus" or "in-focus") and focal and semiconductor
S37	6	("5544256"   "5943437"   "6259960"   "6288782"   "6292582"   "6314379").PN.
S39	27	intensity gradient and semiconductor and (edge adj2 detect\$3) and image and pixel
S47	13	("3829691"   "4698503"   "4733074"   "4894540"   "4941980"   "5130540"   "5142147"   "5512747"   "5523568"   "5608218"   "6067164"   "6172365"   "6278114").PN.
S48	1152	("in focus" or "in-focus") and image and pixel and (edge adj\$2 detect\$4) and focal
S46	1	2001-042674
S51	70	S50 and semiconductor
S53	9	S50 and ("edge point" or "edge pixel")
S52	6	S50 and "edge point"
S50	292	S49 and @pd<"20030325"
S49	639	S48 and pattern
S54	1	S51 and specimen.ti.
S55	2	10/252521
S56	2	("6804380").PN.
S57	7	("auto-focus" or "auto focus") and image and pixel and "reference image" and edge and ("in-focus" or "in focus") and focal and distance
S59	22	(absolute adj (difference or value)) and image and pixel and "reference image" and edge and ("in-focus" or "in focus") and focal and distance
S58	1	("tie-point" or "tie point") and image and pixel and "reference image" and edge and ("in-focus" or "in focus") and focal and distance
S60	1	("auto-focus" or "auto focus") and image and pixel and "reference image" and edge and (determin\$4 same ("in-focus" or "in focus")) and intensity and gradient
S61	19	(edge adj2 mask) and image and pixel and "reference image" and focus
S62	41	intensity gradient and image and pixel and "reference image" and focus
S63	8	intensity gradient and image and pixel and "reference image" and ("auto-focus" or "auto focus" or autofocus)
S64	2	("4564839").PN.
S65	13	("3829691"   "4698503"   "4733074"   "4894540"   "4941980"   "5130540"   "5142147"   "5512747"   "5523568"   "5608218"   "6067164"   "6172365"   "6278114").PN.
S66	1	electron microscope and semiconductor and distance and position and "integer multiple" and "step width"
S67	54	electron microscope and semiconductor and distance and position and "integer multiple"
S68	55	electron microscope and semiconductor and "equal distance" and interval
S69	2	("4990776").PN.
S71	16	(US-20020015143-\$).did. or (US-5245173-\$ or US-6456899-\$ or US-6538249-\$ or US-5648652-\$ or US-6288782-\$ or US-5030008-\$ or US-5051585-\$ or US-5557097-\$ or US-5644245-\$ or US-6067164-\$ or US-6278114-\$ or US-5912699-\$ or US-6653633-\$ or US-7109485-\$ or US-5790692-\$).did.
S72	0	S71 and parfocal

S74 20 ("3715582" | "3835403" | "3937959" | "4097740" | "4199681" | "4393309" | "4514634" | "4724319" | "4788425" | "4978856" | "4990776" | "4999496" | "5032725" | "5084618" | "5198668" | "5243191" | "5302829" | "5404012" | "5512747" | "5594245").PN.

S70 1 (US-5030008-\$).did.

S73 4 S71 and (working adj (length or distance))  
(US-20030000000000000000 or US-2004024/1/2-0 or US-20050128000-0 or US-2004024/9/1-0 or US-20040239735-\$ or US-20040070653-\$ or US-20030232288-\$ or US-20030180432-\$ or US-20030154907-\$ or US-20020098439-\$ or US-20010018490-\$ or US-20060270779-\$ or US-20050268840-\$ or US-20050256669-\$ or US-20050197416-\$ or US-20040131257-\$ or US-20040099987-\$ or US-20030034587-\$ or US-20020144641-\$).did. or (US-5418288-\$ or US-5376406-\$ or US-5354622-\$ or US-5321096-\$ or US-5300620-\$ or US-5252700-\$ or US-5241080-\$ or US-5196231-\$ or US-5164428-\$ or US-5132153-\$ or US-5095059-\$ or US-5092933-\$ or US-7163980-\$ or US-7151855-\$ or US-7108820-\$ or US-7044475-\$ or US-7031070-\$ or US-6981762-\$ or US-6977010-\$ or US-6790584-\$ or US-6756422-\$ or US-6733585-\$ or US-6586019-\$ or US-6582896-\$ or US-6150084-\$ or US-6090892-\$).did. or (US-6083680-\$ or US-6045956-\$ or US-5928823-\$ or US-5908775-\$ or US-5888636-\$ or US-5882828-\$ or US-5869322-\$ or US-5800954-\$ or US-5747214-\$ or US-5731115-\$ or US-5683841-\$ or US-5658701-\$ or US-5650463-\$ or US-5648190-\$ or US-5633317-\$ or US-575 and pattern.clm. and edge.clm.

S77 4 S76 and image.clm.

S79 1 S77 and focal.clm.

S78 1 S77 and focus.clm.

S91 1 S90 and focal.clm.

S87 1164 ("in focus" or "in-focus") and image and pixel and (edge adj\$2 detect\$4) and focal

S82 0 S80 and S81

S86 0 S80 and S85

S83 41 intensity gradient and image and pixel and "reference image" and focus

S88 4 S80 and S87

S93 8 S89 and pattern.clm.

S92 1 S90 and focus.clm.

S90 4 S89 and edge.clm.

S94 4 S90 and pattern.clm.

S84 0 S80 and S83

S81 272 ("in focus" or "in-focus" or infocus) and (memory or storage) and pattern and image and pixel and edge and focal and select\$4

S80 532 (382/286).CCLS.

S85 19 (edge adj2 mask) and image and pixel and "reference image" and focus  
(US-20030000000000000000 or US-20030000000000000000 or US-20050128000-0 or US-2004013125-0 or US-20030232288-\$ or US-20060270779-\$ or US-20040247172-\$ or US-20040247901-\$ or US-20030154907-\$ or US-20030180432-\$ or US-20020098439-\$ or US-20020144641-\$ or US-20040070653-\$ or US-20040099987-\$ or US-20010018490-\$ or US-20030034587-\$ or US-20050256669-\$ or US-20050197416-\$ or US-20040239735-\$).did. or (US-5354839-\$ or US-5457154-\$ or US-5075204-\$ or US-7108820-\$ or US-5241080-\$ or US-6423464-\$ or US-6437048-\$ or US-5132153-\$ or US-5095059-\$ or US-6210869-\$ or US-5300620-\$ or US-6090892-\$ or US-5196231-\$ or US-5164428-\$ or US-5354622-\$ or US-6824730-\$ or US-7044475-\$ or US-7091261-\$ or US-6458505-\$ or US-6582896-\$ or US-5428127-\$ or US-5494996-\$ or US-6083680-\$ or US-6150084-\$ or US-6309814-\$ or US-5928823-\$).did. or (US-5082972-\$ or US-5480965-\$ or US-6570025-\$ or US-5650463-\$ or US-5683841-\$ or US-6399696-\$ or US-5376406-\$ or US-5869322-\$ or US-5872002-\$ or US-7031070-\$ or US-7163980-\$ or US-4528329-\$ or US-6733585-\$ or US-5321096-\$ or US-5526102-\$ or US-